

Deneva 2 C Series Storage Solutions



Deneva 2 SATA 3.0 Solid State Drives - 2.5" SLC

C Series at a Glance

- Leading-edge SATA 6Gb/s storage solution designed to dramatically increase productivity & application performance
- Cost-effective SLC-based design with best-in-class endurance & reliability

Raising the Bar in Performance

- Nearly double the speed of the previous generation
- Delivers the performance of hundreds of hard disk drives in a single server
 - Over 500MB/s of throughput
 - Up to 80,000 4K random write IOPS

Reliable, Longer-Lasting, & Secure

- Data fail recovery ensures superior reliability
- Maximized product lifespan with write amplification as low as 0.3
- Intelligent block management & wear-leveling for increased endurance
- Advanced security with 256-bit AES encryption support
- Strong error correction for enhanced data integrity

Flexible Design with a Wide Array of Configurations

 Deneva 2 comes in an industry-standard 2.5" model; however, its unique architecture can be tailored to fit specific applications

Cost-Savings that Other SSD Lines Cannot Deliver

- Alternative flash options provide a greater spectrum of price per IOPS
- Support for next generation NAND flash geometries

KEY DIFFERENTIATORS:

- Highest performing SSD in its class
- Ultra-high endurance for enterprise applications (increases drive life by up to 5x the rated P/E cycles of the NAND flash)
- Unique ability to customize form factor, functionality (i.e. firmware), & components
- Robust feature-set including enterpriseclass ECC, data reliability, and data path parity protection

OCZ Deneva 2 SSDs are designed and manufactured to solve today's enterprise storage challenges and address the limitations hard drive technology imposes on IT infrastructures. The Deneva 2 Series delivers the industry's best performance while meeting the stringent reliability, security, and economical needs of enterprise storage environments including cloud storage, web-serving, and data warehousing. Providing a lucrative option for datacenters, Deneva 2 maximizes IOPS per dollar enabling increased data throughput with lower power consumption and a smaller operating footprint.

enterprise



enterprise Deneva 2 C SLC Series Specifications

PHYSICAL

30GB ~ 120GB Usable Capacities (IDEMA)

NAND Components Toggle-Mode Single-Level Cell (SLC)

Interface Serial ATA (SATA) 6Gb/s

Form Factor

SandForce® 2281 NAND Controller

Dimensions (L x W x H) 99.7 x 69.75 x 9.2 mm

Weight 88g (may vary slightly due to capacity)

PERFORMANCE

Max Read up to 550 MB/s

Max Write up to 520 MB/s

up to 55,000 IOPS Random Read Operations (4kB)

Random Write Operations (4kB) up to 80,000 IOPS

ENVIRONMENTAL

Idle: 1.65 Watts Active: 3 Watts **Power Consumption**

0°C ~ 55°C **Ambient Temperature** 0°C ~ 70°C Operating Temperature

Storage Temperature

RoHS, CE, FCC Certifications

RELIABILITY/SECURITY

MTBF

Data Fail Recovery Recovers data from up to one NAND flash block (available on 120GB and up)

Data Path Protection ECC: Up to 55 bits correctable per 512-byte sector Data Reliability Read unrecoverable bit error rate (UBER) 10e-16

Data Encryption 128-bit & 256-bit AES-compliant

Product Health Monitoring Self-Monitoring, Analysis and Reporting Technology (SMART) Support

COMPATIBILITY

Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.0. Fully compliant with Serial ATA ATA/ATAPI-8 Standard Native Command Queuing (NCQ)

Windows XP 32-bit / 64-bit; Windows Vista 32-bit / 64-bit; Windows 7 32-bit / 64-bit; Linux; Mac OS X Operating System

Power Requirements Standard SATA Power Connector

ADDITIONAL FEATURES

Performance Optimization TRIM (requires OS support)

Service & Support

PRODUCT		CAPACITY			ORDERING	
NAME	TYPE	RAW	IDEMA	WRITE ENDURANCE*	PART NUMBER	UPC
Deneva 2	2.5" SLC	32GB	30GB	Up to 15PB	D2CSTK251S14-0030	842024029045
Deneva 2	2.5" SLC	64GB	60GB	Up to 30PB	D2CSTK251S14-0060	842024027522
Deneva 2	2.5" SLC	128GB	120GB	Up to 60PB	D2CSTK251S14-0120	842024027515

* JEDEC Specification

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